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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/500,560	06/30/2004	Masato Tanaka	SAE-0027	5196		
23353 75	590 11/07/2006		EXAM	EXAMINER		
	IMAN & GRAUER PLI	PESELE	PESELEV, ELLI			
LION BUILDII 1233 20TH STI	REET N.W., SUITE 501	ART UNIT	PAPER NUMBER			
WASHINGTO	N, DC 20036	1623				
			DATE MAILED: 11/07/2006	6		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application N	0.	Applicant(s)				
Office Action Commence		10/500,560		TANAKA ET AL.				
Office Action Sur	Examiner		Art Unit					
		Elli Peselev		1623	20			
The MAILING DATE of th Period for Reply	is communication app	ears on the cov	ver sheet with the c	orrespondence ad	Idress			
A SHORTENED STATUTORY WHICHEVER IS LONGER; FR - Extensions of time may be available unde after SIX (6) MONTHS from the mailing do - If NO period for reply is specified above, t - Failure to reply within the set or extended Any reply received by the Office later than earned patent term adjustment. See 37 C	OM THE MAILING DA r the provisions of 37 CFR 1.13 ate of this communication. the maximum statutory period w period for reply will, by statute, three months after the mailing	ATE OF THIS ( 36(a). In no event, he vill apply and will exp, cause the applicatio	COMMUNICATION owever, may a reply be tirr ire SIX (6) MONTHS from in to become ABANDONE	<b>J.</b> hely filed the mailing date of this c D (35 U.S.C. § 133).				
Status								
1) Responsive to communic	ation(s) filed on 19 O	ctober 2006.						
2a)⊠ This action is <b>FINAL</b> .								
<u>'</u>								
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
4)⊠ Claim(s) <u>1-5</u> is/are pendi	☑ Claim(s) <u>1-5</u> is/are pending in the application.							
4a) Of the above claim(s)	4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allo	Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-5</u> is/are rejecto								
7) Claim(s) is/are obj	Claim(s) is/are objected to.							
8) Claim(s) are subject	ct to restriction and/or	r election requi	rement.					
Application Papers	_							
9) The specification is object	ed to by the Examiner	r.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet	(s) including the correcti	ion is required if	the drawing(s) is obj	ected to. See 37 Cl	FR 1.121(d).			
11) The oath or declaration is	objected to by the Ex	aminer. Note t	he attached Office	Action or form P7	ГО-152.			
Priority under 35 U.S.C. § 119				•				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
	The second of the production of the second o							
	ied copies of the prior			ed in this National	Stage			
	e International Bureau	•	` ''					
* See the attached detailed Office action for a list of the certified copies not received.								
Attachment(s)		_	<b>-</b>					
<ol> <li>Notice of References Cited (PTO-892</li> <li>Notice of Draftsperson's Patent Draw</li> </ol>		4) [	Interview Summary Paper No(s)/Mail Da	(PTO-413)				
3) Information Disclosure Statement(s) (PTO/SB/08)  Tupo: Notice of Informal Patent Application								
Paper No(s)/Mail Date 6) Other:								

Claims 1-5 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The terminology "one or more groups" and "carboxyl" (claim 1) is not disclosed or suggested by the specification as originally filed.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Venturello et al (European Patent No. 0 146 374) in combination with Young (U.S. Patent No. 2,813,908) or the British Patent GB 1 208 144.

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Venturello et al disclose a process for preparing diols by reacting an olefin in the presence of hydrogen peroxide and a polymer (pages 506) but do not disclose the use of a polymer having a sulfonic group. However, since Young (column 2) and the British Patent'144 (page 1, column 2) disclose the use of polymers having sulfonic groups in the hydration of olefins, a person having ordinary skill in the art a the time the claimed invention was made would have been motivated to use polymers having sulfonic groups in the process disclosed by Venturello et al because such a person would have expected to produce the claimed diols.

Applicant's arguments filed October 19, 2006 have been fully considered but they are not persuasive.

Applicant contends that Venturello fails to disclose or suggest the use of a polymer catalyst having a sulfonic group. And that Young and the British Patent'144 disclose a method of making a monohydroxyl alcohol and ether based on a hydration reaction of olefin and water. Applicant also contends that a catalyst in a chemical reaction is unique to a specific chemical reaction. Applicant's arguments have been considered but have not been found persuasive. It was known in the art at the time the claimed invention was made that the preparation of diols requires hydrogenation of olefins in the presence hydrogen peroxide and a catalyst as disclosed by Venturello et al. It was also well known in the art at the time the present invention was made that polymers having sulfonic groups are very useful as catalysts in the hydration of olefins as disclosed by Young and the British Patent'144. Thus Yong and the British Patent'144 provide a motivation for use of polymers having sulfonic acid groups as

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catalysts in the hydration of olefins. Note that the rejection under 35 U.S.C. 103 does not require 100% predictability. Therefore, the claimed process is still deemed prima facie obvious over the cited prior art.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elli Peselev whose telephone number is (571) 272-0659. The examiner can normally be reached on 8.00-4.30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shaojia Jiang can be reached on (571) 272-0627. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Elli Peselev

ELLÍ PESELEV PRIMARY EXAMINER GROUP 1200

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